

Panasonic

INTEGRATED TELEPHONE SYSTEM

KX-TS25-B

Model No. **KX-TS25-W**

Data Port

Pulse-or-tone dialing capability

Operating Instructions



KX-TS25-W

PLEASE READ BEFORE USE AND SAVE.

La referencia rápida en español puede ser encontrada en las páginas 38 - 43.

Before Initial Use _____

Please read **IMPORTANT SAFETY INSTRUCTIONS** on pages 33–34 before use.
Read and understand all instructions.

Thank you for purchasing the Panasonic integrated telephone system.



Attach your purchase receipt here.

For your future reference

Serial No. _____

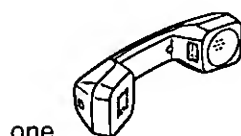
(found on the bottom of the unit)

Date of purchase _____

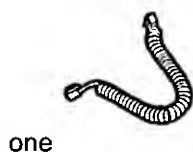
Name and address of dealer _____

Accessories

Handset (p. 8)

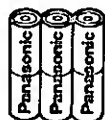


Handset cord (p. 8)



R6 (AA,UM-3)
size batteries (p. 7)

three



4-wired telephone line cord
with clear green plugs (pp. 8, 9, 10)



2-wired telephone line cord
with transparent plugs (pp. 9, 10)

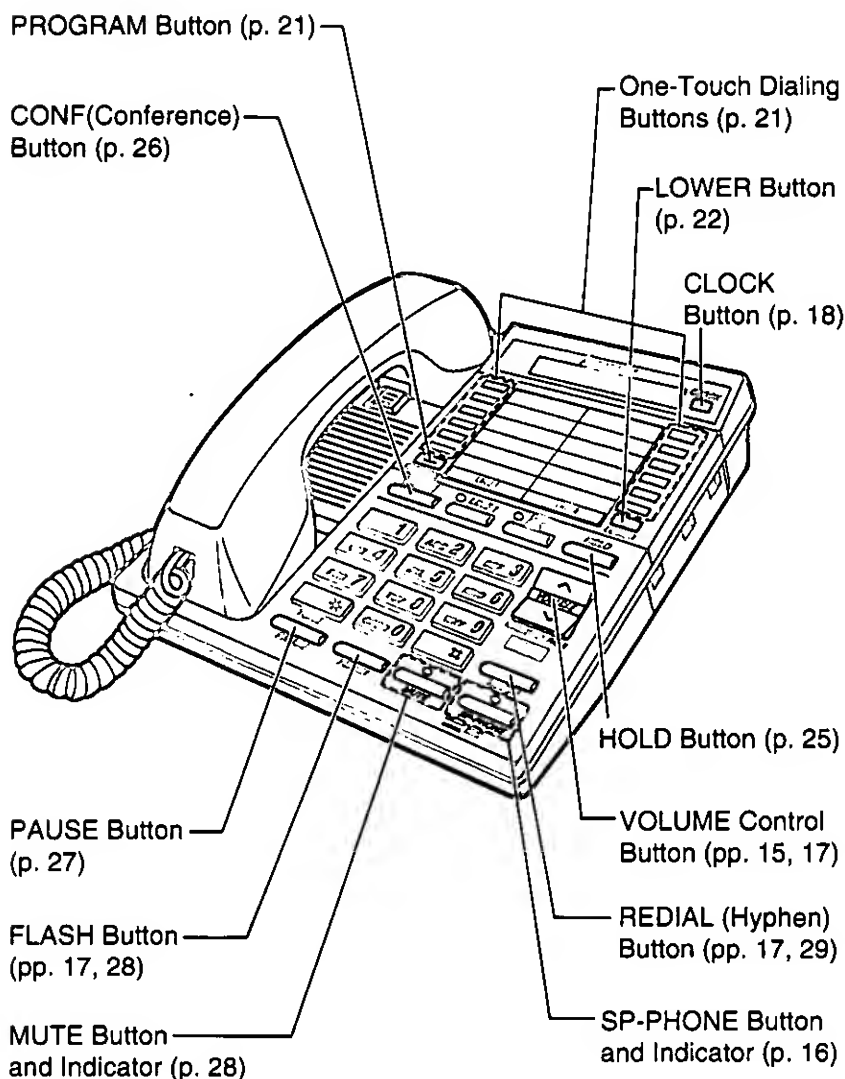


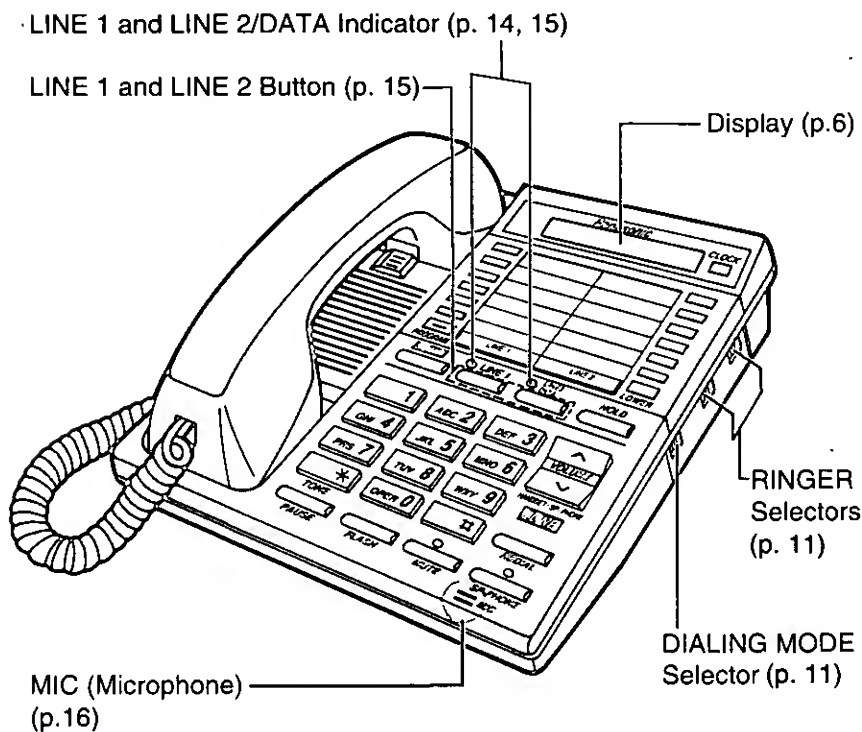
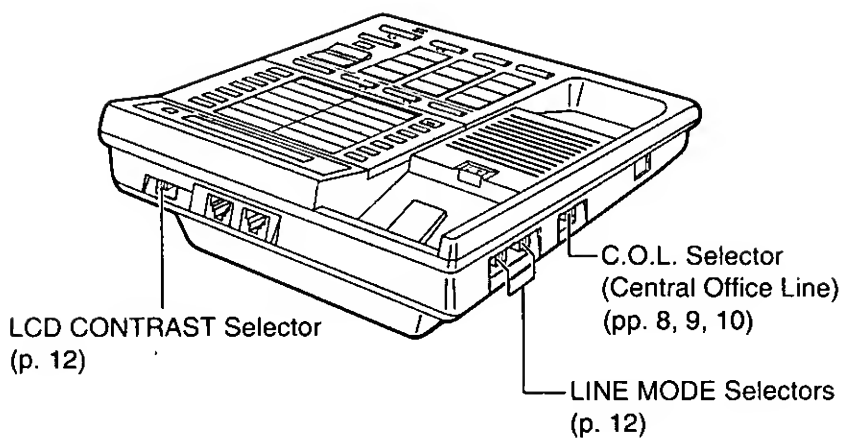
• To order accessories, call 1-800-332-5368.

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Location of controls





Messages on the display



(This display shows all the possible configurations.)

CLOCKADJ The unit is in the CLOCK ADJUST mode. (p. 13)

TIMESET The steps of the setting time procedure you should follow now. (p. 13)

L1 RINGER OFF The RINGER selector of the LINE 1 is in the OFF position. (p. 19)

L2 RINGER OFF The RINGER selector of the LINE 2 is in the OFF position. (p. 19)

PROGRAM The unit is in the programming mode. (p. 21)

PHONE NO. STATION The steps of the storing procedure you should follow now. (p. 21)

REDIAL The unit is redialing. (p. 17)

LOWER The lower station is selected. (p. 22)

FLASH The FLASH button is pressed while storing numbers. (p. 28)

PAUSE The PAUSE button is pressed. (p. 27)

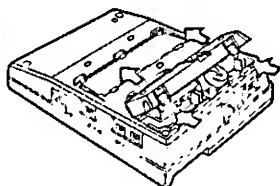
*** (Star)** "X" is pressed when the dialing mode is TONE. (p. 27)

(Hash) "#" is pressed when the dialing mode is TONE.

Battery installation

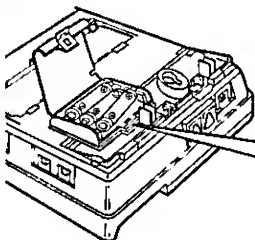
Three R6 (AA, UM-3) size batteries serve as the power source to activate the display and the SP-PHONE fully, and to retain the stored phone numbers in memory.

1

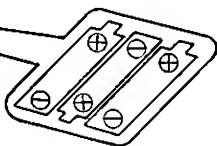


Remove the wall mounting adaptor from the bottom of the unit.

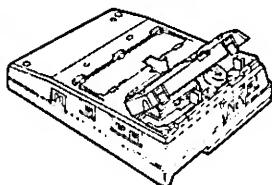
2



Open the battery compartment cover, then insert three R6 (AA, UM-3) size batteries observing the correct polarity.



3



Insert the tabs of the wall mounting adaptor into the openings of the unit, then push it in the direction of the arrow. (The word "UP" on the adaptor should be upward.)

Note:

- To prevent loss of the stored phone numbers, replace new batteries within 10 minutes after removing the old ones.
- Disconnect the telephone line cord before opening the battery compartment cover.
- Battery life is dependant on the capacity of the batteries used and the amount of usage your telephone receives. Replace the batteries as needed when the SP-PHONE or programmable functions do not operate properly.
- Do not use Nickel-cadmium batteries.

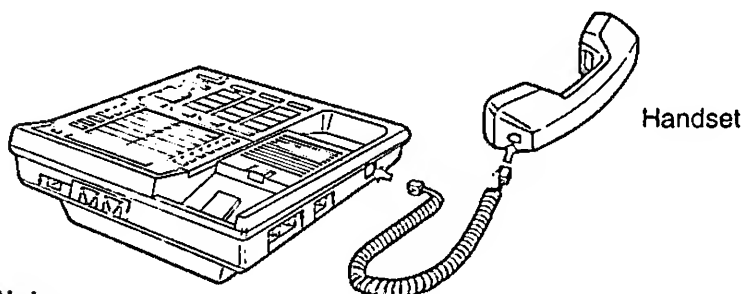
BATTERY PRECAUTIONS:

The batteries should be used correctly, otherwise the unit may be damaged due to battery leakage.

- Do not mix different types of batteries.
- Do not charge, short-circuit, disassemble, heat or dispose in fire.
- Remove all the batteries when replacing.

Connection

Connecting the handset



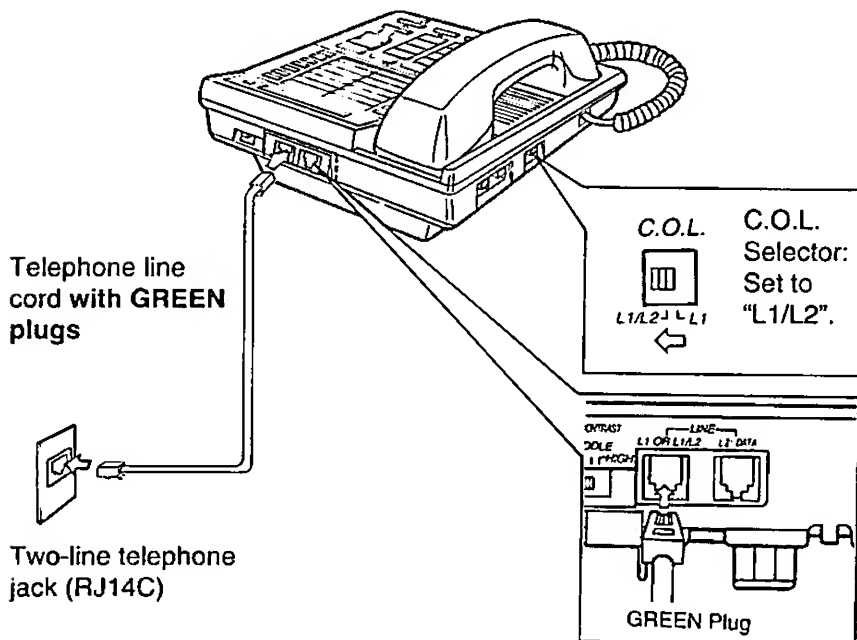
Note:

— Use only Panasonic Handset for the KX-TS25-B/KX-TS25-W.

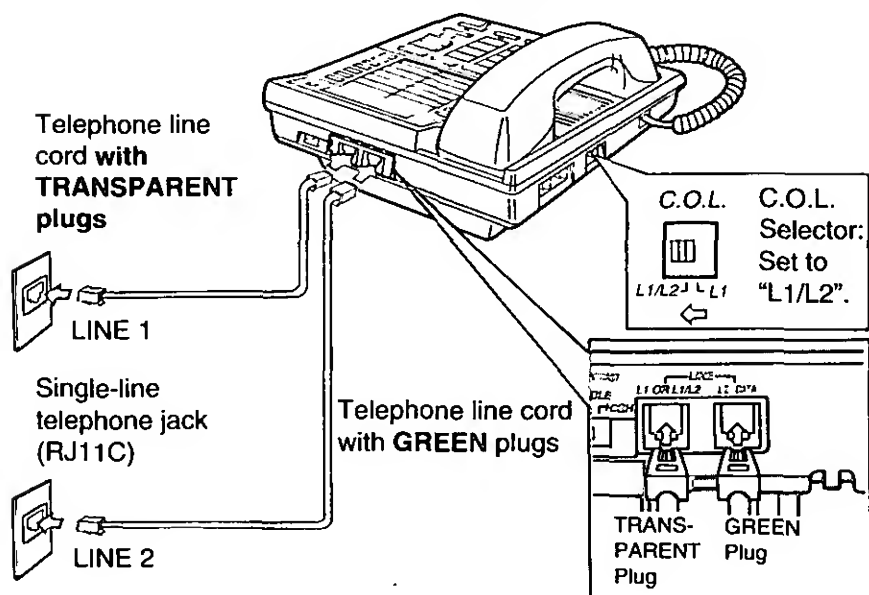
Connecting the telephone line cord

Connect the telephone line cord(s) to the unit, and set the C.O.L. selector following each figure. Setting the C.O.L. selector is needed to ensure that the line indicators convey proper line usage.

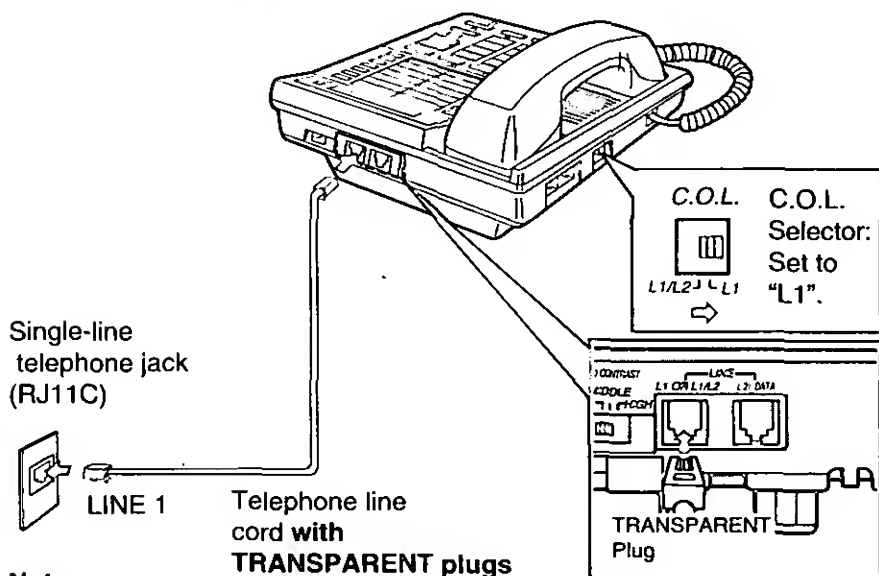
To connect to a two-line telephone jack



To connect to two single-line telephone jacks



If you use the unit as only a single-line telephone



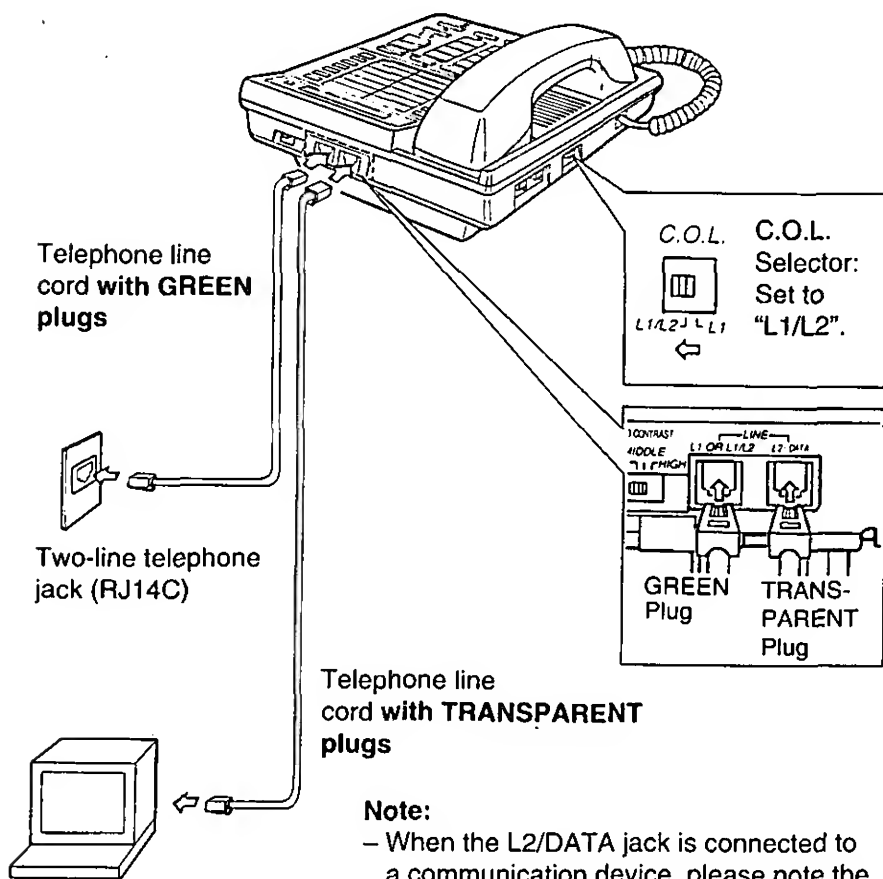
Note:

- When using this connection, you can only use LINE 1. 2-line telephone features are not available.

(Continued)

To connect a computer modem, fax or answering machine

If you are connecting a communications device (computer modem, answering machine, fax, etc.) to a telephone line, you can connect it through this unit using LINE 2. First, connect the L1 OR L1/L2 jack to a two-line telephone jack (RJ14C), then connect the L2/DATA jack to the communications device as shown below.

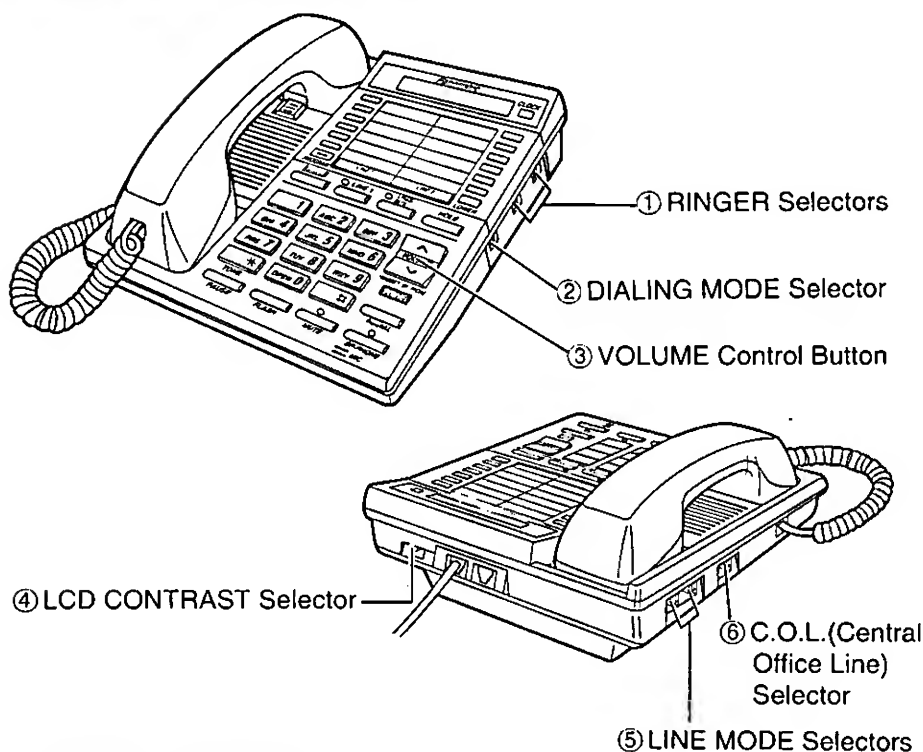


Note:

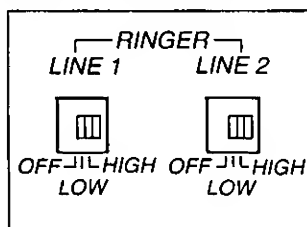
- When the L2/DATA jack is connected to a communication device, please note the following.
- When the LINE 2/DATA indicator lights red, the communication device is in use. Please use LINE 1. (If LINE 2 is used, the communication device may not operate properly.)

- Computer modem
- Fax
- Answering Machine

Setting selectors



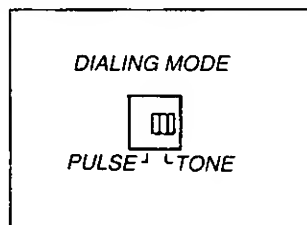
① RINGER Selectors



Used to set the ringer volume of each line.

Set to the HIGH or the LOW position. When setting to the OFF position, the bell will not ring.

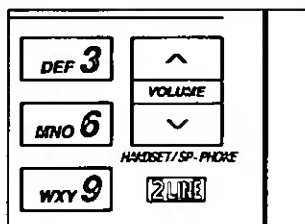
② DIALING MODE Selector



Set to the TONE position when both telephone lines have touch tone service. If either of them has rotary service, set to the PULSE position.

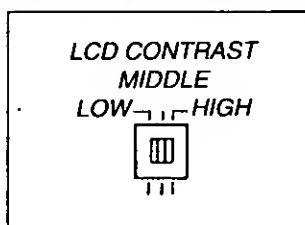
(Continued)

③ VOLUME Control Button



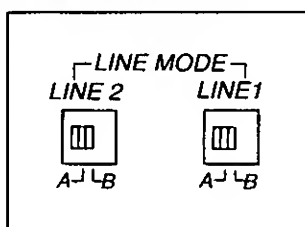
You can change the volume of the caller's voice through the handset receiver or the speakerphone.

④ LCD CONTRAST Selector



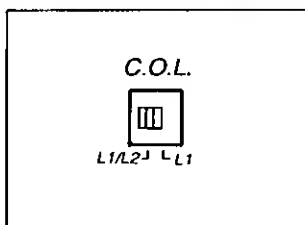
Usually set to the MIDDLE position.
HIGH: The contrast is high density.
LOW: The contrast is low density.

⑤ LINE MODE Selectors



Set to the A position. If the line is connected to a low voltage system such as PBX, set to the B position.

⑥ C.O.L. (Central Office Line) Selector



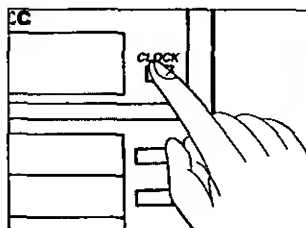
Setting the C.O.L. selector is needed to ensure that the line indicators convey proper line usage.
Set to the L1/L2 position. If you use the unit as only a single line telephone, set to the L1 position.
(See pages 8, 9, 10.)

Setting time

This unit is equipped with a clock.

Be sure that the handset is in the cradle, batteries are installed and the SP-PHONE indicator light goes out.

1

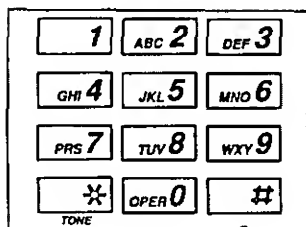


Press the CLOCK button.

– “CLOCK ADJ” and “TIME SET = * = CLOCK” are displayed to show the programming procedure.

CLOCK ADJ TIME SET = * = CLOCK
AM 12-00

2



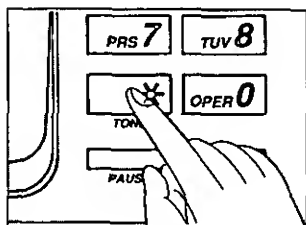
Enter the current time (hour and minute) by using 2-digit number.

(Example:

To set the time “6:30”, enter “0630”.)

CLOCK ADJ TIME SET = * = CLOCK
AM 06-30

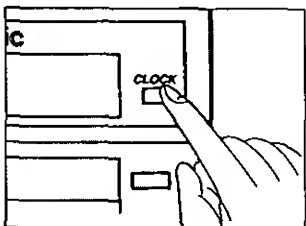
3



Press “*” to select “AM” or “PM” on the display.

CLOCK ADJ TIME SET = * = CLOCK
PM 06-30

4

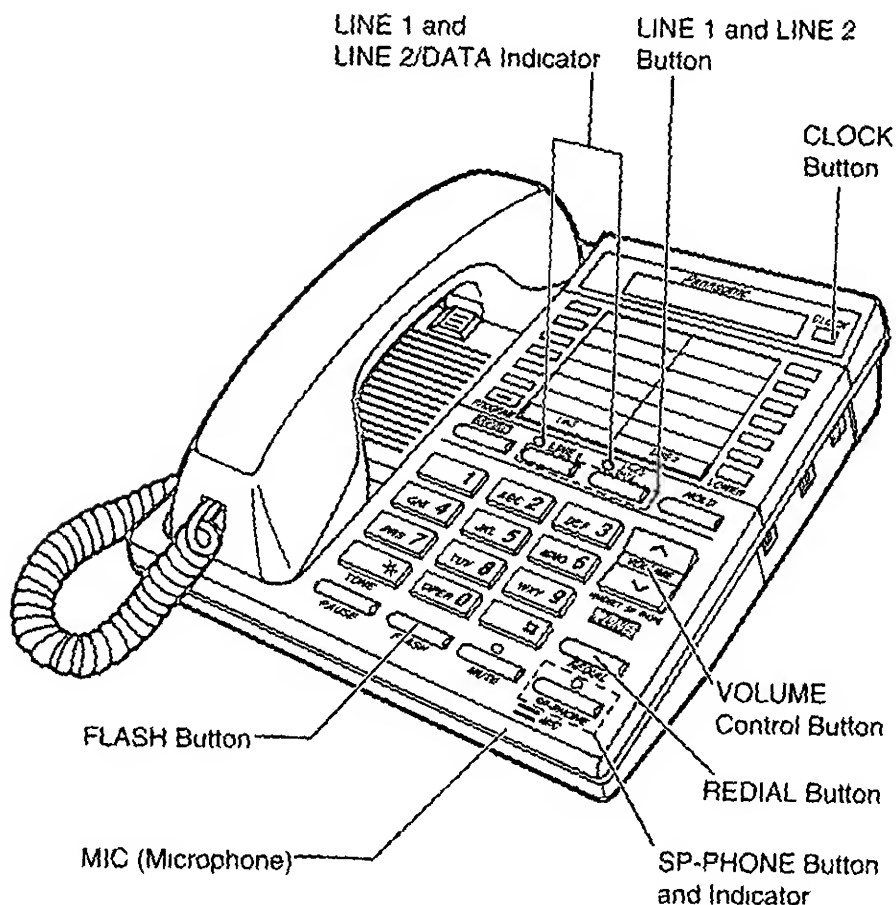


Press the CLOCK button to end the CLOCK ADJUST mode.

Note:

- Setting time is required after changing batteries.
- The accuracy of the clock will be approximately ± 45 seconds a month at room temperature.

Making calls

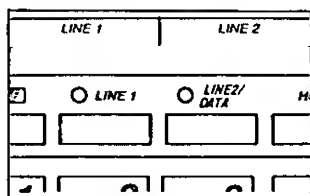


Note:

- You can make or answer a second call on the other line with keeping the present call (See page 25)
- When the LINE 2/DATA jack is connected to a communication device (see page 10), please note the following
 - When the LINE 2/DATA indicator lights red, the communication device is in use. Please use LINE 1. (If LINE 2 is used, the communication device may not operate properly.)

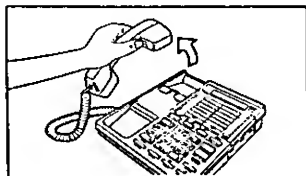
Making calls with the handset

1



Press the LINE 1 or the LINE 2 button to select the telephone line.

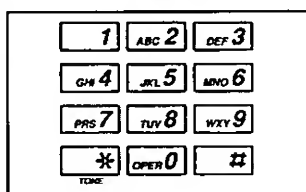
2



Lift the handset.

– The selected line indicator lights red.

3

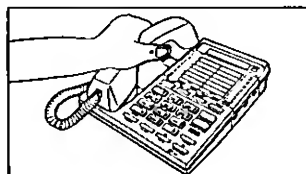


Dial a telephone number.

– The dialed number is displayed.

– You can switch to speakerphone call pressing the SP-PHONE button. You may place the handset in the cradle.

4



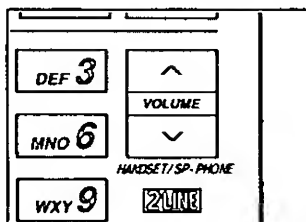
When you have finished, place the handset in the cradle.

– The line indicator light goes out.

To adjust the handset receiver's volume

You can adjust the volume level of the handset receiver using the VOLUME control button during a conversation.

3 levels are available (High, Rather high and Normal).



To increase the volume, press ^ .

To decrease the volume, press v .

The number of " " indicates the relative volume level.

: High level

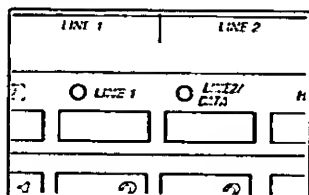
: Rather high level

: Normal level

The level remains displayed for 2 seconds. After hanging up, the volume returns to the normal level.

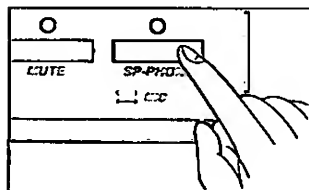
Making calls with the speakerphone

1



Press the LINE 1 or the LINE 2 button to select the telephone line.

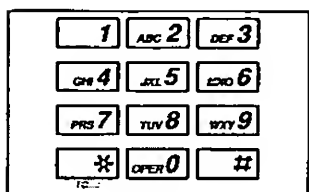
2



Press the SP-PHONE button.

- The selected line indicator lights red and the SP-PHONE indicator light is on.

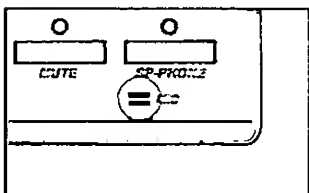
3



Dial a telephone number.

- The dialed number is displayed.

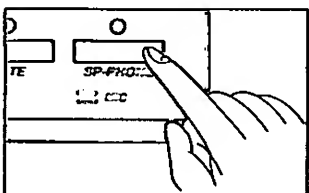
4



Speak to the other party through the MIC (Microphone).

- To switch to the handset call, lift the handset.

5



When you have finished, press the SP-PHONE button.

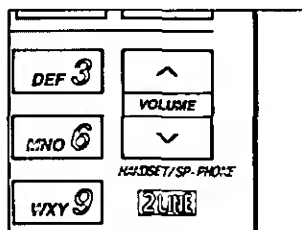
- The line indicator and the SP-PHONE indicator lights go out.

Note:

- The speakerphone does not work without installing batteries.
- Be sure that the CONF(Conference) button is released.

To adjust the speaker volume

You can adjust the volume level of the speaker using the VOLUME control button during a conversation. 12 levels are available.

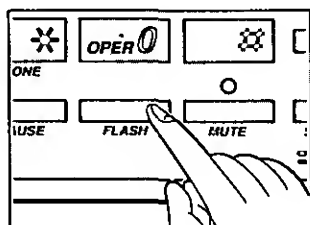


To increase the volume, press \wedge .
To decrease the volume, press \vee .

The number of " " indicates the relative volume level, with the highest level having 12 " ".

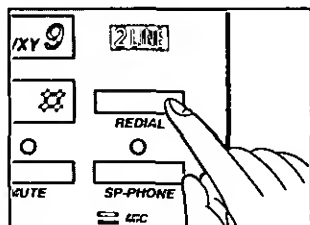
The level remains displayed for 2 seconds. After hanging up, the selected volume level is maintained.

If you misdial



Press the FLASH button firmly.
The dial tone is heard, then dial the correct number.

To redial



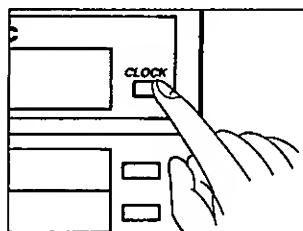
Press the LINE 1 or the LINE 2 button, then press the REDIAL button.

When using the handset, the unit redials the last dialed number once.

When using the speakerphone, the unit redials the last dialed number up to 15 times within a 10-minute period if the line is busy. (Automatic redial)

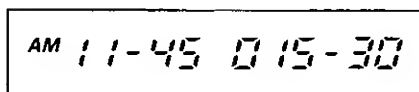
Checking the length of your call

You can observe the length of your present call with the current time on the display while having a conversation.



Press the CLOCK button during a conversation.

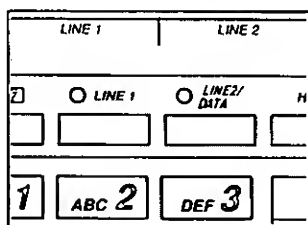
- The call duration and the current time are displayed.
(Example: You have been talking for 15 minutes 30 seconds.)



To cancel the display, press the CLOCK button again.

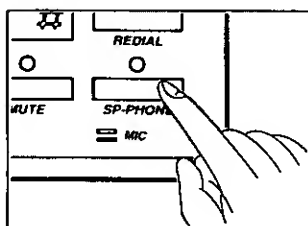
Answering calls

1



When the telephone rings, press the LINE button whose indicator is flashing red.

2



Lift the handset or press the SP-PHONE button to answer the call.

- The line indicator light becomes steady.
- When you have finished, replace the handset or press the SP-PHONE button.

Note:

- If the RINGER selector is in the OFF position, "**L1 RINGER OFF**" or "**L2 RINGER OFF**" is displayed.
Set to the HIGH or LOW position.
- Be sure that the CONF (Conference) button is released.

Helpful hints for the speaker-phone operations:

- **When the other party find it difficult to hear your voice:**
Lower the speaker volume using the VOLUME control button or speak louder.
- **Absorbing echo:**
Use in a room which has curtains or carpeting.
- **Avoiding lost or broken conversation:**
If you and the caller speak at the same time, parts of your conversation will be lost. Speak alternately to avoid this.

Automatic dialing

You can store up to 24 phone numbers most frequently dialed into memory. (12 numbers for upper memory stations, 12 numbers for lower memory stations)

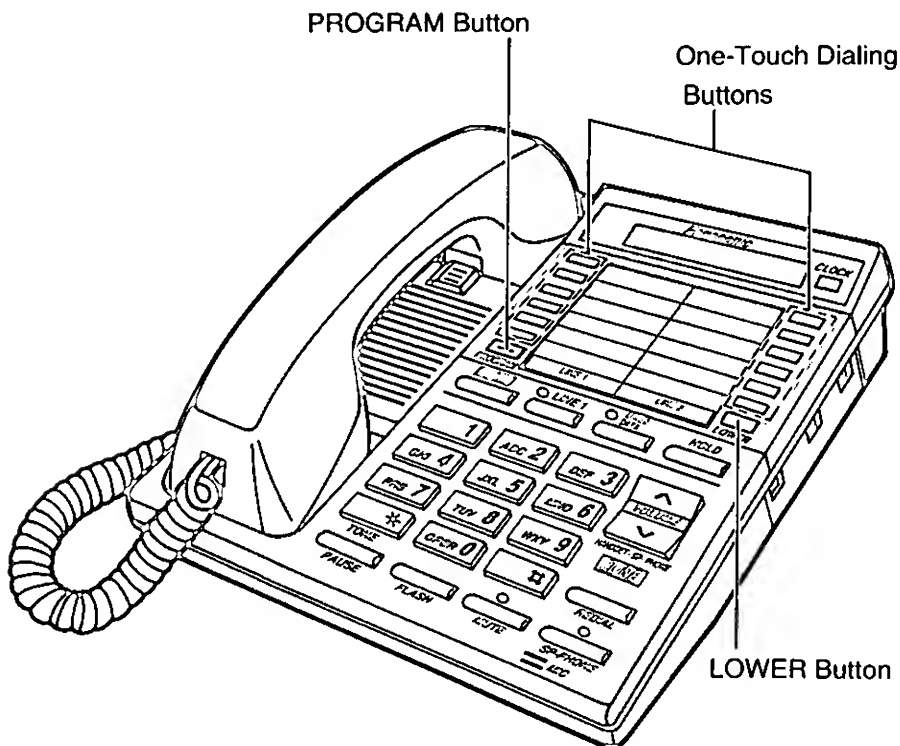
The stored number is dialed automatically by pressing the line button and one of the one-touch dialing buttons.

Storing phone numbers into memory

CAUTION:

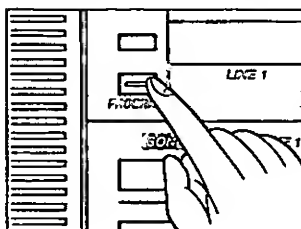
Please do not press any buttons of "automatic dialer" before programming. This is to prevent misoperation of auto dialer function.

Each memory station is capable of storing up to a 16-digit phone number. Be sure that the handset is in the cradle, batteries are installed and the SP-PHONE indicator light goes out.



Into UPPER memory stations

1

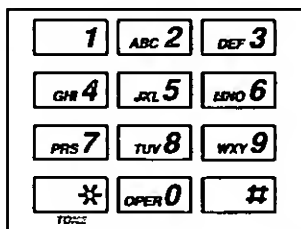


Press the PROGRAM button.

- "PROGRAM" and "PHONE NO. STATION" are displayed to show the programming procedure.

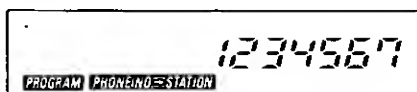


2

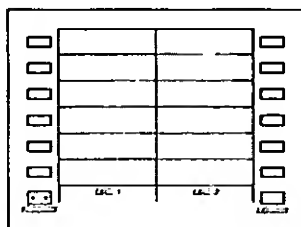


Enter the phone number to be stored up to 16 digits.

- The dialed number is displayed.



3



Press one of the one touch dialing buttons to select the memory station.

- A beep sounds and the phone number is stored.

OR

Two beeps sound when the same number is already stored.

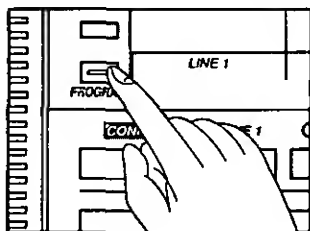
- To store other numbers, repeat steps 1 through 3.

Note:

- If you misdial, press the PROGRAM button to end the programming mode, then start from step 1 again to store the correct number.
- Pressing the REDIAL button during dialing inserts a hyphen in a phone number.
- A "PAUSE" or a "FLASH" can be stored with a phone number counting as one extra digit. (See pages 27, 28.)
- A "*" or a "#" can be stored with a phone number counting as two extra digits.
- You can keep storing phone numbers including confidential ones. (See page 29.)

Into LOWER memory stations

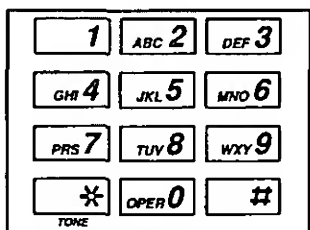
1



Press the PROGRAM button.

- "PROGRAM" and "PHONE NO. STATION" are displayed to show the programming procedure.

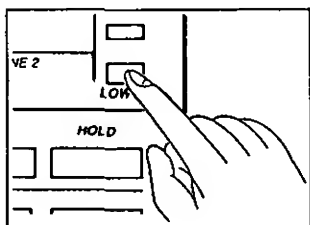
2



Enter the phone number to be stored up to 16 digits.

- The dialed number is displayed.

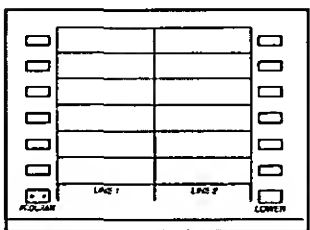
3



Press the LOWER button to select the lower location.

- "LOWER" is displayed.

4



Press one of the one-touch dialing buttons to select the memory station.

- A beep sounds and the phone number is stored.

OR

Two beeps sound when the same number is already stored.

- To store other numbers, repeat steps 1 through 4.

Note:

- If you misdial, press the PROGRAM button to end the programming mode, then start from step 1 again to store the correct number.

To confirm a stored number

Store the phone number which you want to confirm into the same memory station. You will hear one or two beeps.

2 beeps: The newly stored number is the same as the previously stored one.

1 beep: The newly stored number is different from the previously stored one.

To erase a stored number

1. Press the PROGRAM button.

2. **If the number is located in the UPPER memory station:**

Press the one-touch dialing button for the phone number to be erased.

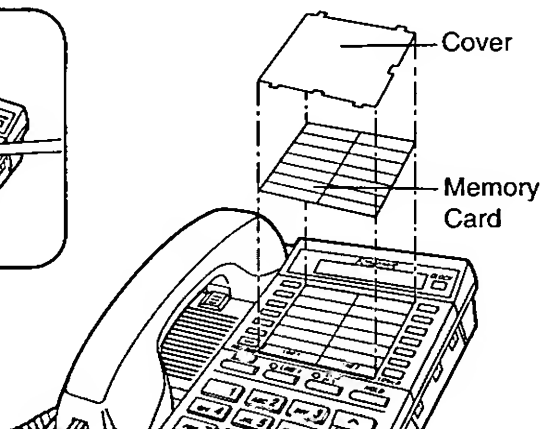
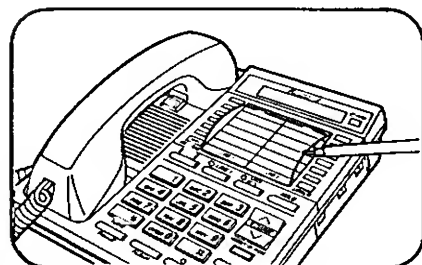
OR

If the number is located in the LOWER memory station:

Press the LOWER button, then the one-touch dialing button.

Memory card

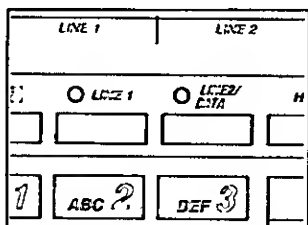
Pull out the memory card and write down the names or phone numbers associated with automatic dialing.



Dialing a stored number from memory

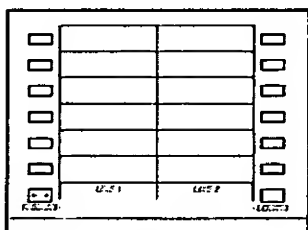
(Full one-touch dialing)

1



Press the LINE 1 or the LINE 2 button to select the telephone line.

2

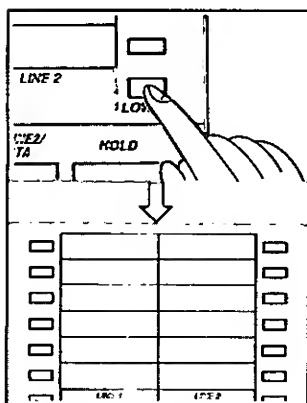


Using the UPPER memory station:
Press the one-touch dialing button where the phone number you want to dial is stored.

- The SP-PHONE turns on automatically and the stored number is dialed.

OR

OR



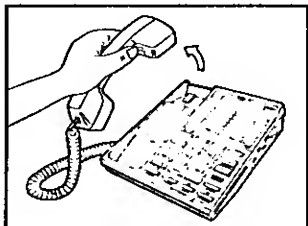
Using the LOWER memory station:
Press the LOWER button.

- The SP-PHONE turns on automatically.

Then, press the one-touch dialing button where the phone number you want to dial is stored.

- The stored number is dialed.

3



Lift the handset to switch to handset call.

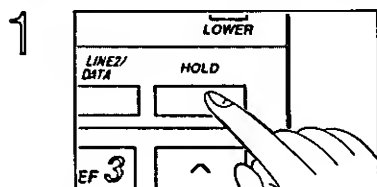
- If you continue speakerphone call, you need not lift the handset. Speak through the MIC.

Using the other line during a conversation

While having a conversation on one line, if the other line indicator begins flashing, an incoming call is arriving on the line.

You can answer the second call with keeping the first call.

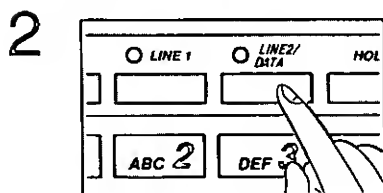
Making a call without ending the first call is also possible.



Example: If you are using LINE 1

Press the HOLD button to put the first call (LINE 1) on hold.

– The LINE 1 indicator light changes from red to green.



When using the handset:

Press the other line button (LINE 2) to make or answer the second call.

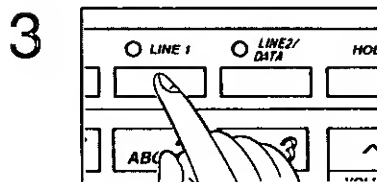
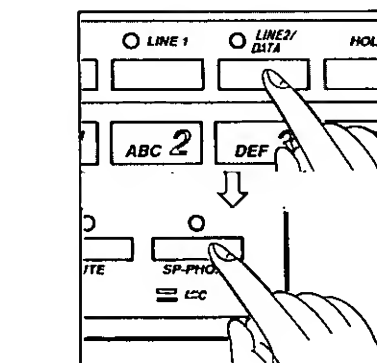
– The LINE 2/DATA indicator lights red.

OR

When using the speakerphone:

Press the other line button (LINE 2), then press the SP-PHONE button or lift the handset to make or answer the second call.

– The LINE 2/DATA indicator lights red.



To return to the first call (LINE 1), press the line button of the first call (LINE 1).

–The LINE 1 indicator light changes to red, then the second call is terminated.

Note:

– If you want to keep the second call on step 3, press as follows:

Using the handset:

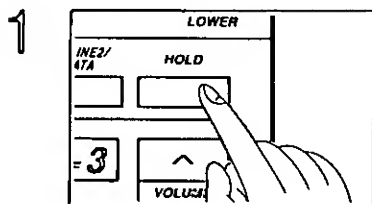
HOLD → The line button

Using the SP-PHONE:

HOLD → The line button → SP-PHONE button

Conference

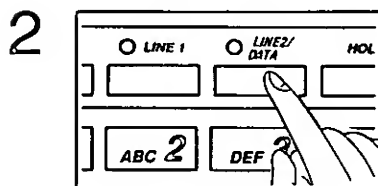
While having a conversation on one line, you can make or answer the second call on the other line, then combine both lines together to establish a conference call.



Example: If you are using LINE 1

Press the HOLD button to put the first call (LINE 1) on hold.

–The LINE 1 indicator light changes from red to green.

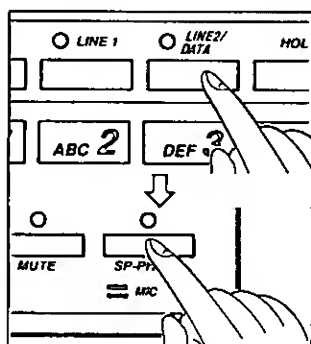


When using the handset:

Press the other line button (LINE 2) to make or answer the second call.

– The LINE 2/DATA indicator lights red.

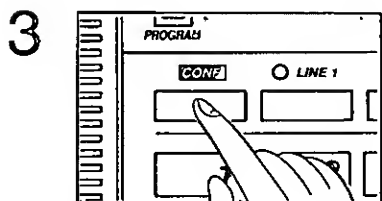
OR



When using the speakerphone:

Press the other line button (LINE 2), then press the SP-PHONE button or lift the handset to make or answer the second call.

– The LINE 2/DATA indicator lights red.



When the second call is connected, press the CONF(Conference) button to establish a conference call.

–Both line indicators light red.

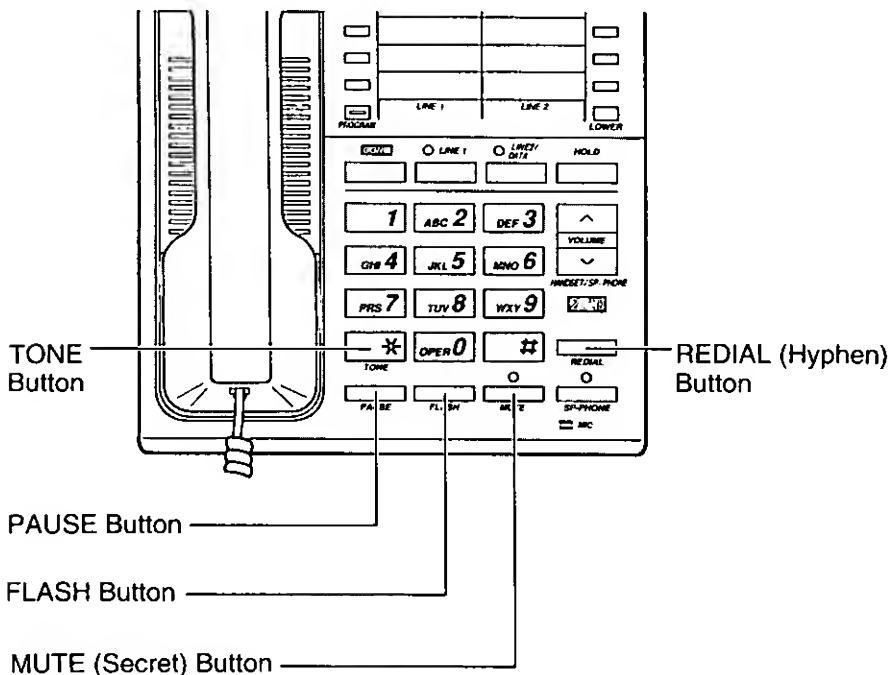
To hang up both lines:

Place the handset in the cradle or press the SP-PHONE button and then press the CONF(Conference) button.

To hang up one line only:

Press the line button of the call you want to continue and then press the CONF(Conference) button.

Other features



Temporary tone dialing

If your line has rotary service, pressing the TONE (*) button allows you to change the dialing mode temporarily into tone. Then you can dial the numbers or codes needed to operate the answering system or to use electronic banking services and other special services. When you hang up, the dialing mode returns to pulse automatically.

PAUSE button (For PBX users)

If your unit is connected to a PBX, you need to dial an access number (usually 9) to get an outside line. In this case, inserting a pause between the access number and the phone number is necessary, especially when redialing or storing the number into memory.

Press the PAUSE button to make a dialing delay in dialing sequence.

FLASH button (To use the hookswitch feature)

The FLASH button works the same as the hookswitch on a regular phone. If you misdial or dial another phone number, press the FLASH button firmly. The call is terminated and the dial tone is heard, then you can dial the next phone number.

If your unit is connected to a PBX, pressing the FLASH button lightly allows you to use special features of the PBX such as transferring an extension call.

Using call waiting feature

To use this feature, you are required to subscribe to call waiting service offered by your local telephone company.

1. While having a conversation, another party calls and you hear a tone.
2. Press the FLASH button lightly.

The first call is put on hold and you can answer the second call. To return to the first caller, press the FLASH button again. The second call is put on hold.

MUTE button

The MUTE button allows you to make your voice mute by the other party. You can hear the other party, but the other party cannot hear you. Press the MUTE button.

The MUTE indicator light is on.

To resume the conversation, press the MUTE button again.

The MUTE indicator light goes out.

Storing phone numbers using secret button feature

You can keep stored phone numbers secret by using the secret button's feature. The confidential numbers will be invisible on the display when dialing.

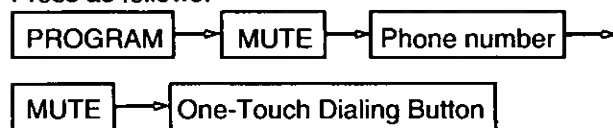
The MUTE button is used as the SECRET button when storing phone numbers.

To store

Be sure that the handset is in the cradle, batteries are installed and the SP-PHONE indicator light goes out.

Example: Make all digits of a phone number secret.

Press as follows:



Then, the phone number will be secret.

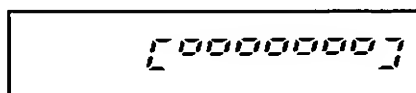
Note:

- Pressing the MUTE (Secret) button once counts as one digit.
- If you want to insert the hyphenation in the phone number, press the REDIAL button while dialing.

To dial

Press the one-touch dialing button where the phone number you want to dial is stored.

The display shows:

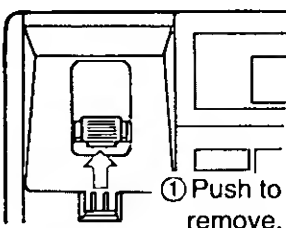


(Example: The stored number is 7 digits.)

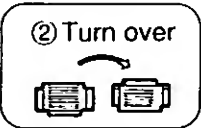
Wall mounting

This unit can be mounted on a wall phone plate. If you do not have one installed, consult your telephone company or an installer.

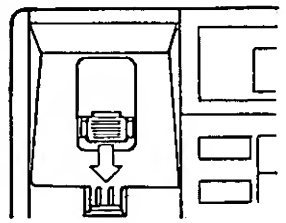
- 1



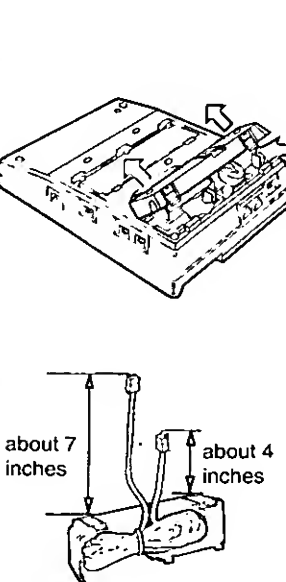
Remove the handset guide from the unit, then turn it over.
- 2



Replace the handset guide with making its tab upward.
- 3

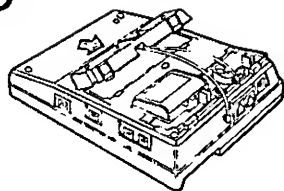


Remove the wall mounting adaptor from the bottom of the unit.
- 4



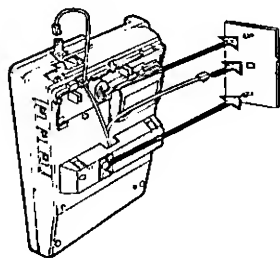
Tuck the telephone line cord inside the wall mounting adaptor.

5

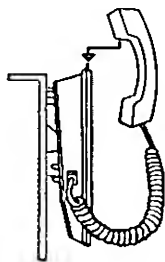


Insert the tabs of the wall mounting adaptor into the openings of the unit, then push it in the direction of the arrow. (The word "UP" on the adaptor should be upward.)

6



Connect the telephone line cord to the unit and to the wall-jack on the wall phone plate. Mount the unit on the wall phone plate, then seat securely by hooking as shown.



To temporarily place the handset down during a conversation, place as shown.

Troubleshooting guide ---

The unit does not ring.

- The RINGER selectors are set to the OFF position.
Set to the HIGH or the LOW position. (See page 11.)

The call cannot be connected even you dialed correctly.

- Check whether the DIALING MODE selector setting is correct. (See page 11.)

The unit does not work.

- The connection of the unit has been made improperly.
(See pages 8, 9, 10.)
- The batteries become weak.
Replace them with new ones.
(See page 7.)

The unit cannot store phone numbers into memory.

- Confirm the handset is in the cradle and the SP-PHONE indicator light goes out.
- Do not pause for over 60 seconds while storing.
- Without installing batteries, storing cannot be accomplished.

While storing a phone number, the unit starts to ring.

- You can talk to the caller by simply lifting the handset.
The program is canceled, then store the phone number again.

If you press LINE 2 button while a communication device is performing data communications, the device may not operate properly.

- Please use LINE 1 to make outgoing calls.

The SP-PHONE button cannot be used.

Full one-touch dialing cannot be done.

The clock is dead.

The LCD display does not work.

- The batteries become weak.
Replace them with new ones.

The caller suddenly cannot hear my voice during a conversation.

- The MUTE indicator light is on.
Press the MUTE button.
(See page 28.)

The line indicators do not work properly.

- The connection of the telephone line or the setting of the C.O.L. selector is made improperly.
(See pages 8, 9, 10.)
- The setting of the LINE MODE selectors is wrong.
(See page 12.)

While having a conversation, the other line indicator flashes red.

- An incoming call is arriving on the other line. To answer it, press the HOLD button to put the current call on hold, then press the line button whose indicator is flashing red. To return to the first call, press the line button of the first call. (See page 25.)

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from wall outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bath tub, wash bowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
8. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
9. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
10. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicer when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
11. Unplug this unit from the wall outlet and refer servicing to an authorized servicer when the following conditions occur:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the unit.
 - C. If the unit has been exposed to rain or water.
 - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicer.
 - E. If the unit has been dropped or physically damaged.
 - F. If the unit exhibits a distinct change in performance.

12. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
13. Do not use this unit to report a gas leak, when in the vicinity of the leak.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

SAVE THESE INSTRUCTIONS

- **Environment** — do not place the unit in room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you left the unit unused for long time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult with your telephone company.

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions

- 1 Use only the battery(ies) specified
- 2 Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions
- 3 Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed
- 4 Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns
- 5 Do not recharge the battery(ies) provided with or identified for use with this product. The batteries may leak corrosive electrolyte or explode
- 6 Do not attempt to rejuvenate the battery(ies) provided with or identified for use with this product by heating. Sudden release of battery electrolyte may occur causing burns or irritation to eyes or skin
- 7 Replace all batteries at the same time. Mixing fresh and discharged batteries could increase internal cell pressure and rupture the discharged battery(ies)
(Applies to products employing more than one separately replaceable primary battery)
- 8 When installing batteries observe the proper polarity or direction. Incorrect installation can cause charging, and may result in leakage or explosion
(Applies to products employing more than one separately replaceable primary battery)
- 9 Remove the batteries from this product if the product will not be used for a long period of time (several months or more). During this time the battery could leak in the product
- 10 Discard "dead" batteries as soon as possible. "Dead" batteries may leak in the product
- 11 Do not store this product, or the batteries provided with or identified for use with this product, in high temperature areas. Batteries that are stored in a freezer or refrigerator for the purpose of extending shelf life should be protected from condensation during storage and defrosting. Batteries should be stabilized at room temperature prior to use after cold storage

FCC and other information

If requested by the telephone company, inform them as follows:

- FCC Registration No.
(found on the bottom of the unit)
- Ringer Equivalence....1.0B
- The particular telephone lines to which the equipment is connected.

This unit must not be connected to a coin operated line. If you are on a party line, check with your local telephone company.

Ringer Equivalence No.

(REN):

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:

- a) Promptly notify the customer.
- b) Give the customer an opportunity to correct the problem with their equipment.
- c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The telephone company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

When programming emergency numbers and/or making test calls to emergency numbers:

- 1) Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
- 2) Perform such activities in the off-peak hours, such as early morning hours or late evenings.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to

correct the interference by one or more of the following measures:

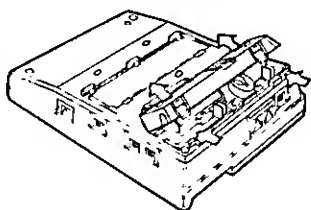
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Referencia rápida

Instalación de las pilas

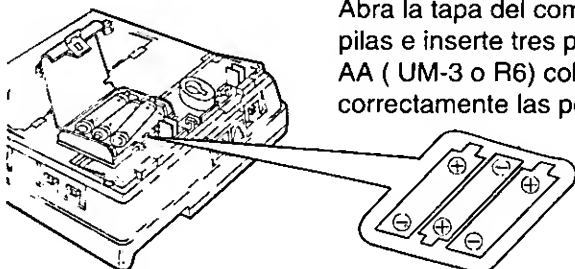
Para activar el visualizador y el altavoz-micrófono, así como también para mantener los números almacenados en la memoria, se necesita la alimentación eléctrica de tres pilas tamaño R6 (AA, UM-3).

1



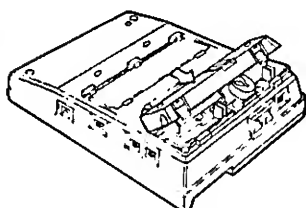
Extraiga el adaptador de montaje en pared de la parte inferior del aparato.

2



Abra la tapa del compartimiento de las pilas e inserte tres pilas, tamaño AA (UM-3 o R6) colocando correctamente las polaridades.

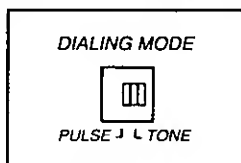
3



Inserte el gancho del adaptador de montaje en pared en el agujero del aparato y luego empujelo en la dirección de la flecha. (La palabra "UP" del adaptador debe estar hacia arriba.)

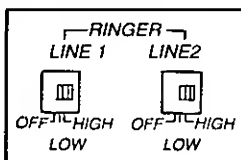
Ajustes de los selectores

Selector DIALING MODE



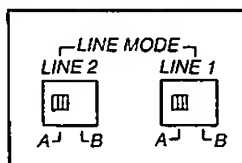
Póngalo en la posición TONE cuando ambas líneas telefónicas dispongan del servicio de marcación por tonos. Póngalo en PULSE, si una de las dos tiene el servicio de marcación por impulsos.

Selector RINGER



Se utiliza para ajustar el volumen del timbre de cada línea. Póngalo en la posición HIGH o en la posición LOW. El timbre no sonará cuando ponga este selector en la posición OFF.

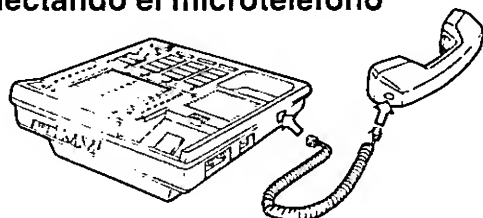
Selectores LINE MODE



Póngalo en la posición A. Si la línea está conectada a un sistema de bajo voltaje, como el PBX, póngalo en la posición B.

Conexión

Conectando el microteléfono

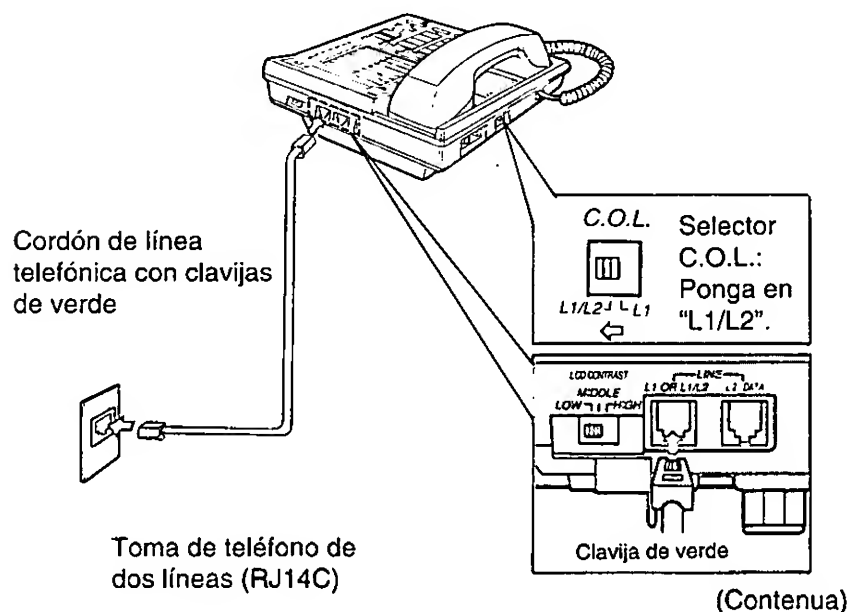


Microteléfono

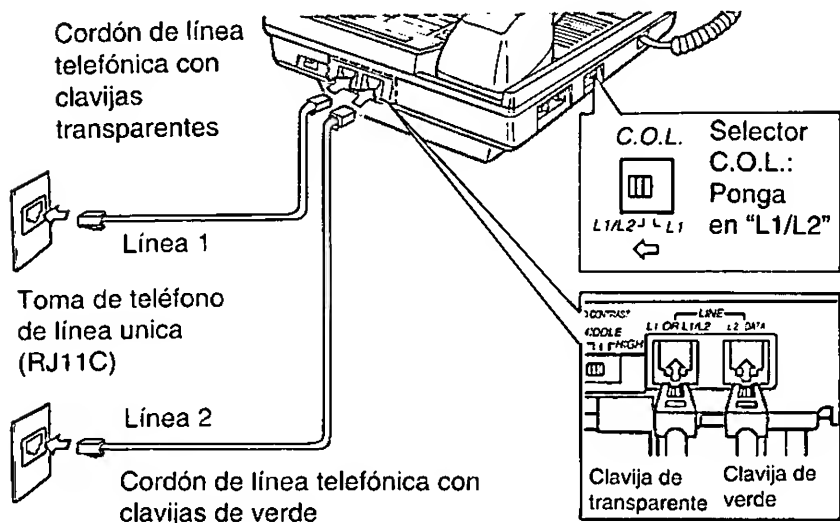
Conexión del cable de la línea telefónica

Conecta el cable(s) de la línea telefónica al aparato y ponga el selector C.O.L. como se indica en cada figura. La fijación del selector C.O.L. es necesaria para asegurar que los indicadores de línea muestren el uso apropiado de la línea.

Para conectar a toma de teléfono de dos líneas

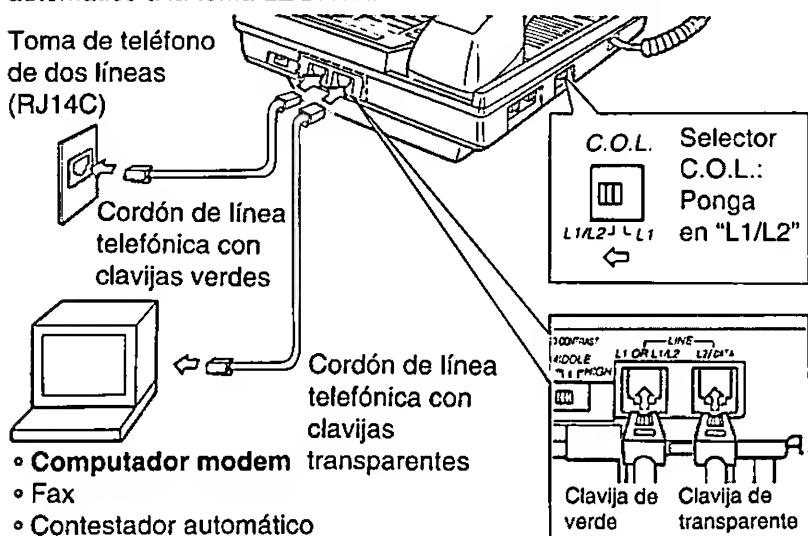


Para conectar a dos tomas de teléfono de línea única



Para conectar una computadora modem, un fax o un contestador automático

Cuando conecte a una toma de teléfono de dos líneas, usted podrá conectar una computadora modem, un fax o un contestador automático a la toma L2/DATA.



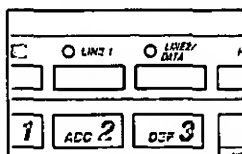
Nota: Si utiliza la unidad como un teléfono de una línea solamente, consulte la página 9.

Para hacer llamadas con el microteléfono

Pulse los botones LINE 1 o LINE 2 para seleccionar la línea de teléfono; entonces, levante el microteléfono y marque el número de teléfono. Cuando termine de conversar, ponga el microteléfono en el gancho conmutador.

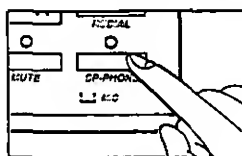
Para hacer llamadas con el altavoz-micrófono

1



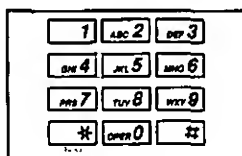
Pulse los botones LINE 1 o LINE 2 para seleccionar la línea de teléfono.

2



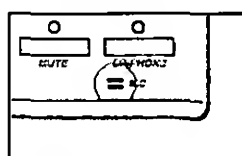
Pulse el botón SP-PHONE.

3



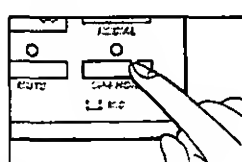
Marque el número de teléfono.

4



Converse con la otra persona por el micrófono (MIC).

5



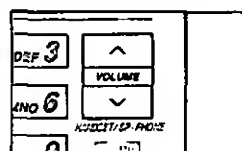
Cuando termine de conversar, pulse el botón SP-PHONE.

Nota:

- El altavoz-micrófono no funciona sin pilas.
- Asegúrese de que el botón CONF (conferencia) esté desconectado.

Para ajustar el volumen de voz de la persona que llama

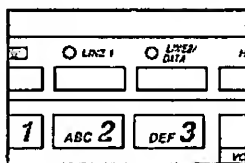
Con los botones de control VOLUME podrá cambiar, durante una conversación, el nivel del sonido del receptor del microteléfono (3 niveles disponibles) y del altavoz (12 niveles disponibles).



Pulse ^ para aumentar el volumen.
Pulse v para disminuir el volumen.

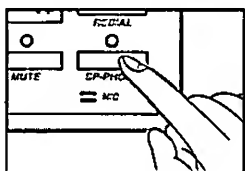
Contestación a llamadas

1



Cuando suene el timbre, pulse el botón de línea cuyo indicador rojo esté parpadeando.

2



Levante el microteléfono o pulse el botón SP-PHONE para contestar a la llamada.

Marcación automática

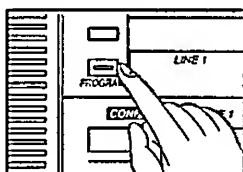
El aparato puede almacenar un máximo de 24 números de teléfono a los que llama con mayor frecuencia (12 números para las estaciones superiores de memoria y 12 números para las estaciones inferiores de memoria).

Para almacenar números de teléfono en la memoria

Cerciórese de que el microteléfono esté en el gancho conmutador, las pilas instaladas y el indicador SP-PHONE apagado.

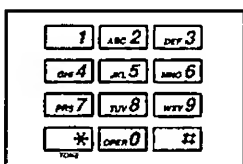
En las estaciones superiores de memoria:

1



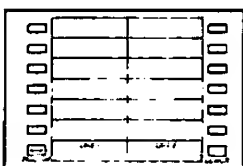
Pulse el botón PROGRAM.

2



Marque el número de teléfono que va a almacenar (un máximo de 16 dígitos).

3



Pulse uno de los botones de marcación con un toque para seleccionar la estación de memoria.

Para almacenar otro número repita los pasos 1, 2 y 3.

Panasonic

PRODUCT INFORMATION • OPERATION ASSISTANCE • LITERATURE REQUESTS • DEALER LOCATIONS

Customer Satisfaction Center 2F-3, One Panasonic Way, Secaucus, NJ 07094 (Headquarters)
201-348-9090 (9:00am-8:00pm Monday-Friday, EST)

ACCESSORY PURCHASES

1-800-332-5368 (Consumer Orders Only)
Matsushita Services Company 20421 84th Avenue South Kent, WA 98032
(6 am to 6 pm Monday-Friday; 6 am to 10:30 am Saturday; PST)
(Visa, Mastercard, Discover card, American Express, Check)

AUTHORIZED SERVICENTERS • PARTS DISTRIBUTOR LOCATIONS

To locate an independent authorized servicer or parts distributor in your area, within the USA dial toll free 1-800-545-2672, 24 hours a day, 7 days a week.

PRODUCT REPAIRS

Factory Servicenters

CALIFORNIA

6550 Katella Avenue
Cypress, CA 90630
Phone (714) 373-7425
Fax (714) 894-8534

800 Duquesne Avenue
S. San Francisco,
CA 94080
Phone (415) 871-6373
Fax (415) 871-6840

20201 Sherman Way
Suite 102
Canoga Park, CA 91306
Phone (818) 709-1775
Fax (818) 709-2165

3878 Ruffin Road Suite A
San Diego, CA 92123
Phone (619) 560-9200
Fax (619) 560-1831

COLORADO

1640 South Abilene Suite D
Aurora, CO 80012
Phone (303) 752-2024
Fax (303) 752-0610

FLORIDA

3700 North 29th Avenue
Suite 102
Hollywood, FL 33020
Phone (954) 925-2880
Fax (954) 925-5224

4710 Eisenhower
Boulevard Suite A1
Tampa, FL 33634
Phone (813) 884-4746
Fax (813) 886-4564

GEORGIA

8655 Rosewell Road
Suite 100
Atlanta, GA 30350
Phone (770) 518-6301
Fax (770) 518-6306

HAWAII

99-859 Iwaiwa Street
Aiea, Hawaii 96701
Phone (808) 488-1996
Fax (808) 486-4369

ILLINOIS

*1703 North Randall Road
Elgin, IL 60123
*12:30 to 4:30, Mon-Fri
Phone (847) 468-5464
Fax (847) 468-5465

9060 Golf Road
Niles, IL 60714
Phone (847) 608-1010
Fax (847) 299-1710

MARYLAND

Sulphur Springs
Business Park
1638 Sulphur Springs
Road
Baltimore, MD 21227
Phone (410) 242-2607
Fax (410) 247-3047

MASSACHUSETTS

60 Glacier Drive Suite G
Westwood, MA 02090
Phone (617) 329-4280
Fax (617) 329-0586

*pick-up/drop-off only

MICHIGAN

37048 Van Dyke Avenue
Sterling Heights, MI 48312
Phone (810) 939-2060
Fax (810) 939-2638

MINNESOTA

7850-12th Avenue South
Airport Business Center
Bloomington, MN 55425
Phone (612) 854-8624
Fax (612) 854-2089

OHIO

2236 Waycross Road
Cincinnati, OH 45240
Phone (513) 851-4180
Fax (513) 851-8443

PENNSYLVANIA

2221 Cabot Boulevard
West Suite B
Langhorne, PA 19047
Phone (215) 741-0661
Fax (215) 741-0521

Charliers Valley
Shopping Center
1025 Washington Pike
Bridgeville, PA 15017
Phone (412) 257-4522
Fax (412) 257-4650

TENNESSEE

919-8th Avenue South
Nashville, TN 37203
Phone (615) 244-4434
Fax (615) 244-6713

TEXAS

7482 Harwin Drive
Houston, TX 77036
Phone (713) 781-1528
Fax (713) 781-0643

13615 Welch Road
Suite 101 Farmers Branch,
TX 75244
Phone (214) 385-1975
Fax (214) 960-7626

WASHINGTON

20425-84th Avenue South
Kent, WA 98032
Phone (206) 872-7922
Fax (206) 872-0918

Service in Puerto Rico

Matsushita Electric
of Puerto Rico, Inc.
Panasonic Sales
Company/
Factory Servicenter
Ave. 65 de Infantería,
Km. 9.5 San Gabriel
Industrial Park
Carolina, Puerto Rico 00985
Phone (809) 750-4300
Fax (809) 768-2910

REPAIR INQUIRIES

Regional Customer Care Department

EAST (PCE)

2221 Cabot Boulevard
West Suite A
Langhorne, PA 19047
Phone (215) 741-0676
Fax (215) 750-6492

Covers:

CT, DE, ME, MD, MA,
NH, NJ, NY, PA, RI, VT,
VA, DC, WV

EAST (PCE)

1225 Northbrook
Parkway
Suite 2-390
Suwanee, GA 30174
Phone (404) 338-6860
Fax (404) 338-6548

Covers:

AL, FL, GA, MS, NC, SC,
TN

CENTRAL (PCC)

1707 North Randall Road
Elgin, IL 60123
Phone (847) 468-5530
Fax (847) 468-5528

Covers:

AR, IL, IN, IA, KS, KY, LA,
MI, MN, MO, NE, ND, OK,
SD, TX, WI, OH

WEST (PCW)

6550 Katella Avenue
Cypress, CA 90630
Phone (714) 373-7440
Fax (714) 373-7447

Covers:

AK, AZ, CA, CO, ID, MT,
NV, NM, OR, UT, WA,
WY, HI

PANASONIC

Telephone Products

Limited Warranty

Matsushita Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico for one (1) year from the date of original purchase in the event of a defect in materials or workmanship.

This Limited Warranty Excludes both Labor and Parts for: batteries, antennas, and cosmetic parts (cabinet).

Carry-in or mail-in service in the USA or Puerto Rico can be obtained during the warranty period by contacting a Matsushita Services Company (MSC) Factory Servicenter listed in the Servicenter Directory. Or call, toll free, 1-800-545-2672 to locate a MSC authorized Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the local telephone number in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use. The warranty does not cover damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, faulty installation, misapplication, set-up adjustments, improper operation or maintenance, alteration, modification, introduction of sand, humidity or liquids, line power surge, improper voltage supply, lightning damage, signal reception problems, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or serviced by anyone other than a MSC Factory Servicenter or a MSC authorized Servicenter, or damage that is attributable to acts of God.

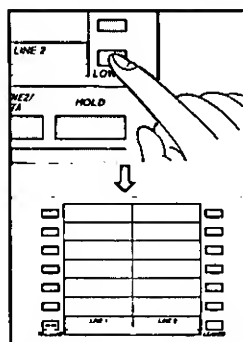
LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

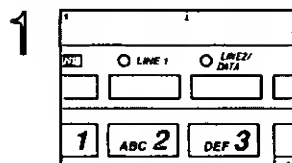
This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the company address indicated above.

En las estaciones inferiores de memoria:

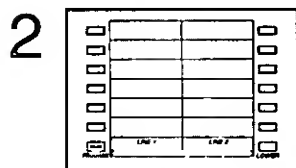


Siga los pasos 1 y 2 de “En las estaciones superiores de memoria”, y luego pulse el botón LOWER, y a continuación pulse uno de los botones de marcación con un toque para seleccionar la estación de la memoria.

Discando un número almacenado desde memoria



Pulse el botón LINE 1 o el botón LINE 2 para obtener señal de línea.

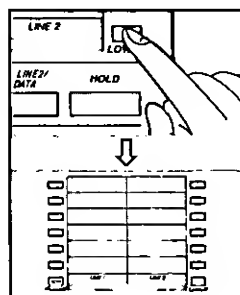


Utilizando las estaciones superiores de memoria:

Pulse el botón de marcación con un toque perteneciente al número de teléfono que va a marcar.

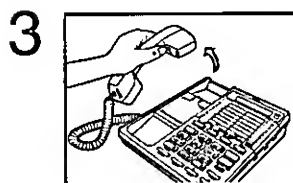
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0



Utilizando las estaciones inferiores de memoria:

Pulse el botón LOWER y a continuación, el botón de marcación con un toque.



Levante el microteléfono portátil para hablar.

- Si usted continúa con la llamada en el altavoz-micrófono, no es necesario que levante el microteléfono portátil. Hable a través del micrófono (MIC).

For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-545-2672 for the location of an authorized servicenter.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Matsushita Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

**Matsushita Consumer Electronics Company,
Division of Matsushita Electric Corporation of America**
One Panasonic Way, Secaucus, New Jersey 07094

**Panasonic Sales Company ("PSC"),
Division of Matsushita Electric of Puerto Rico, Inc.**
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park
Carolina, Puerto Rico 00985